

SAUMYA AGRAWAL

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EDUCATION

University of Illinois at Urbana-Champaign

Graduation: May 2022

Bachelor of Science, Computer Science and Statistics

GPA: 3.68

Minor: Microeconomics

Dean's List: Fall 2018

EXPERIENCE

Course Assistant, Data Science Exploration (STAT207)

August 2019 – Present

Statistics Department, University of Illinois at Urbana Champaign

- Holding laboratory hours twice a week to assist students in understanding **Python** and its **data tools**
- Clarifying doubts on theoretical statistical analysis
- Grading laboratory submissions, exams, and projects on a weekly basis for 15+ students

Research Assistant, Clancy Laboratory

January 2019 – May 2019

Researchers' Initiative, University of Illinois at Urbana Champaign

- Performed a **correlation study** on **multivariable datasets** collected on the different aspects of identity for Polish/Polish-American Women
- Organized and analysed data using **REDCAP** to make it more conducive and decipherable for research purposes

PROJECTS

Guess the Dialogue- PC Game

April 2019 – May 2019

- Program that accesses the **audio hardware** of the computer, allowing the user to play dialogues of popular cinema and predict their origin
- Designed and developed the program interface using **OpenFrameworks, C++** toolkit while practicing **test-driven development**

Lazy-Econ – Android App

November 2018 – December 2019

- **Mobile app** that applies principles of economic theory to model the effects of governmental policies on domestic markets, interest rates, and individual firms
- Developed UI functionalities including interactive graphs with Android Studio

Soybean Export – Regression Model

February 2019 – May 2019

- **Multifactor Regression** conducted in **Microsoft Excel** quantifying the **significant variables** which affected the export of Soybean from the United States in the last decade
- Model analysis for errors such as **multicollinearity**, **heteroskedasticity**, or **autocorrelated errors**, and thus creating a **reduced model**

RELEVANT COURSE WORK

Data Structures, Software Design Studio, Introduction to Computer Science, Discrete Structures, Statistical Analysis, Economics Statistics, Intermediate Microeconomic Theory, Calculus III

SKILLS & ACHIEVEMENTS

Technical Skills: Git, C++, Java, Python, R, HTML/CSS, SQL

Achievements:

- Qualified as a national level writer in creative writing in India
- National Honor Society: Alpha Lambda Delta